

Listing of Claims:

1. (Currently Amended) A method of decoding ~~on a mobile device and analyzing~~ a barcode, comprising ~~the steps of~~:

imaging a barcode with a mobile device equipped with a digital camera;
~~enhancing said barcode image using software located on said mobile device;~~
converting said barcode image to an array of pixels;
dividing said array of pixels into vertical sections;
determining a first intensity for at least one pixel in each of said vertical sections;
assigning a second intensity to said at least one pixel if said first intensity is at least one of
below a first threshold intensity and above a second threshold intensity to enhance said barcode
image;
~~decoding the barcode information from said enhanced barcode image to obtain barcode~~
information on said mobile device;
transmitting at least one of said barcode image and said barcode information from said
mobile device to a server via a wireless network; and
~~processing said barcode information using said server to determine the media content~~
~~associated with said barcode information; and~~
transmitting said receiving media content associated with said barcode information from said server
~~to the said mobile device via said wireless network.~~

2. (Cancelled)

3. (Cancelled)

4. (Currently Amended) A method of decoding ~~and analyzing~~ a barcode according to claim 1, ~~wherein said enhancing of said barcode image using software located on said mobile device comprises the steps of~~ further comprising at least one of: correcting said barcode image for skew; correcting said barcode image for yaw; correcting said barcode image for barcode sizing;

correcting said barcode image for rotation of said barcode from the normal position; sharpening the pixels in said barcode image; and enhancing the edges of said barcode in said barcode image.

5. (Currently Amended) A method of decoding ~~and analyzing~~ a barcode according to claim 1, ~~wherein said decoding on said mobile device of said barcode comprises the steps of~~ further comprising: calculating the number of edges in said barcode image; loading a first symbology library; comparing said number of edges to a predetermined threshold require for said symbology library; and decoding said barcode from said barcode image utilizing said symbology library.
6. (Currently Amended) A method of decoding ~~and analyzing~~ a barcode according to claim 5, wherein ~~a plurality of other symbology libraries are~~ at least one other symbology library is loaded if said number of edges is less than said predetermined threshold.
7. (Currently Amended) A method of decoding ~~and analyzing~~ a barcode according to claim 1, wherein said mobile device is at least one of the group ~~consisting of~~ comprising a camera phone, mobile phone, smart phone, PDA, pager, pocket PC or laptop computer.
8. (Currently Amended) A method of decoding ~~and analyzing~~ a barcode according to claim 1, wherein said barcode is constructed from at least one of the standardized barcode symbology libraries ~~consisting of the group of~~ comprising UPC-A, UC-E, ISBN, RSS-14, RSS-14E, RSS-14L, Interleaved 2 of 5, EAN/JAN-8, EAN/JAN-13, Code 3, Code 39 Full ASCII, Code 128, PDF417, QR Code, or Data Matrix.
9. (Currently Amended) A method of decoding ~~and analyzing~~ a barcode according to claim 1, wherein said media content is a search result of a database constructed from said barcode information.
10. (Currently Amended) A method of decoding ~~and analyzing~~ a barcode according to claim 1, wherein said media content transmitted to said mobile device is product information.

11. (Currently Amended) A method of decoding ~~and analyzing~~ a barcode according to claim 1, wherein said wireless network is a WAP network.

12. (Currently Amended) A method of decoding ~~and analyzing~~ a barcode according to claim 1, wherein said barcode information is transmitted to said server via a SMS message.

13. (Currently Amended) A method of decoding ~~and analyzing~~ a barcode according to claim 1, wherein said barcode information is transmitted to said server via a MMS message.

14. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode comprising:

at least one machine readable barcode;

at least one mobile device equipped with a digital camera for imaging said machine readable barcode, ~~wherein said mobile device decodes the barcode information from said barcode image, and, wherein said system said mobile device enhances said barcode image by performing the steps of correcting said barcode image for skew; correcting said barcode image for yaw; correcting said barcode image for barcode sizing; correcting said barcode image for rotation of said barcode from the normal position; sharpening the pixels in said barcode image; and enhancing the edges of said barcode in said barcode image; converts said barcode image to an array of pixels; divides said array of pixels into vertical sections; determines a first intensity for at least one pixel in each of said vertical sections; assigns a second intensity to said at least one pixel if said first intensity is at least one of below a first threshold intensity and above a second threshold intensity to enhance said barcode image; and decodes said enhanced barcode image to obtain barcode information; and~~

a wireless network; and in communication with said mobile device and in communication with a server, wherein said mobile device sends at least one of said barcode information and said barcode image to said server and receives a server for receiving and processing said barcode information via said wireless network, wherein said server transmits media content associated with said barcode information from said server to said mobile device after processing said barcode information.

15. (Canceled)

16. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode according to claim 14, ~~wherein said decoding of said barcode by said mobile device comprises the steps of further~~ comprising: calculating the number of edges in said enhanced barcode image; loading a first symbology library; comparing said number of edges to a predetermined threshold require for said symbology library; and decoding said barcode from said barcode image utilizing said symbology library.
17. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode according to claim 16, ~~wherein a plurality of other symbology libraries are~~ at least one other symbology library is loaded ~~by said mobile device~~ if said number of edges is less than said predetermined threshold.
18. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode according to claim 14, wherein said mobile device is at least one of the group ~~consisting of~~ comprising a camera phone, mobile phone, smart phone, PDA, pager, pocket PC, desktop, or laptop computer.
19. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode according to claim 14, wherein said barcode is constructed from at least one of the standardized barcode symbology libraries ~~consisting of the group of~~ comprising UPC-A, UC-E, ISBN, RSS-14, RSS14E, RSS-14L, Interleaved 2 of 5, EAN/JAN-8, EAN/JAN-13, Code 3, Code 39 Full ASCII, Code 128, PDF417, QR Code, or Data Matrix.
20. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode according to claim 14, wherein said media content is a search result of a database constructed from said barcode information.
21. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode according to claim 14, wherein said media content transmitted to said mobile device is product information about said manufactured good.

22. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode according to claim 14, wherein said wireless network is a WAP network.
23. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode according to claim 14, wherein said barcode image is transmitted to said server via a ~~SM~~MMS message.
24. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode according to claim 14, wherein said barcode information is transmitted to said server via a MMS message.
25. (Currently Amended) A system for decoding ~~and analyzing~~ a barcode according to claim 14, wherein said mobile devices utilizes an operating system from the list consisting of Symbian OS, Java, embedded VC++, Windows CE, and Palm OS.
26. (New) A computer program product residing on a computer readable medium, the computer program product comprising instructions for causing a computer to:
- convert a barcode image to an array of pixels, wherein said barcode is imaged with a mobile device equipped with a digital camera;
 - divide said array of pixels into vertical sections;
 - determine a first intensity for at least one pixel in each of said vertical sections;
 - assign a second intensity to said at least one pixel if said first intensity is at least one of below a first threshold intensity and above a second threshold intensity to enhance said barcode image;
 - decode barcode information from said enhanced barcode image;
 - transmit at least one of said enhanced barcode image and said barcode information from said mobile device to a server via a wireless network; and
 - receive media content associated with said barcode information from said server via said wireless network.
27. (New) A computer program product according to claim 26, further comprising instructions for causing a computer to calculate the number of edges in said enhanced barcode image; load a

first symbology library; compare said number of edges to a predetermined threshold require for said symbology library; and decode said barcode from said barcode image utilizing said symbology library.

28. (New) A computer program product according to claim 27, wherein at least one other symbology library is loaded if said number of edges is less than said predetermined threshold.

29. (New) A wireless device, comprising:

- means for imaging a barcode;
- means for converting said barcode image to an array of pixels;
- means for dividing said array of pixels into vertical sections;
- means for determining a first intensity for at least one pixel in each of said vertical sections;
- means for assigning a second intensity to said at least one pixel if said first intensity is at least one of below a first threshold intensity and above a second threshold intensity to enhance said barcode image;
- means for decoding said enhanced barcode image to obtain barcode information;
- means for transmitting at least one of said barcode image and said barcode information to a server; and
- means for receiving media content associated with said barcode information from said server.

30. (New) A wireless device according to claim 29, further comprising:

- means for calculating the number of edges in said enhanced barcode image;
- means for loading a first symbology library;
- means for comparing said number of edges to a predetermined threshold require for said symbology library; and
- means for decoding said barcode from said barcode image utilizing said symbology library.

31. (New) A wireless device according to claim 30, further comprising means for loading at least one other symbology library if said number of edges is less than said predetermined threshold.